

Refine Search

Search Results -

Terms	Documents
L1.clm.	2

Database:

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Search:

L2

Refine Search

Recall Text Clear Interrupt

Search History

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<u>Set</u>	<u>Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
	side by side			result set
DB=PGPB; PLUR=YES; OP=OR	L2	L1.clm.	2	L2
L1	(optical adj1 (disk or disc)) same (control\$4 near3 (board or card)) same (external or remote or separate\$2)		47	L1

END OF SEARCH HISTORY

Refine Search

Search Results -

Terms	Documents
(optical adj1 (disk or disc)) same (control\$4 near3 (board or card)) same (external or remote or separate\$2) and L3	2

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<u>Set</u>	<u>Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
side by side				result set
DB=PGPB,USPT,USOC; PLUR=YES; OP=OR				
<u>L4</u>		(optical adj1 (disk or disc)) same (control\$4 near3 (board or card)) same (external or remote or separate\$2) and l3	2	<u>L4</u>
<u>L3</u>		720/652,653.ccls.	52	<u>L3</u>
DB=PGPB; PLUR=YES; OP=OR				
<u>L2</u>		L1.clm.	2	<u>L2</u>
<u>L1</u>		(optical adj1 (disk or disc)) same (control\$4 near3 (board or card)) same (external or remote or separate\$2)	47	<u>L1</u>

END OF SEARCH HISTORY

Refine Search

Search Results -

Terms	Documents
L1 same (driv\$3 adj1 unit)	33

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Clear
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<u>Set</u> <u>Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u> result set
side by side			
DB=PGPB,USPT,USOC; PLUR=YES; OP=OR			
<u>L4</u>	L1 same (driv\$3 adj1 unit)	33	<u>L4</u>
<u>L3</u>	L1 same driving	170	<u>L3</u>
<u>L2</u>	L1 same (driving adj1 unit)	2	<u>L2</u>
<u>L1</u>	(disk or disc) same (control\$4 near3 (board or card)) same (external or remote or separate\$2)	1913	<u>L1</u>

END OF SEARCH HISTORY

Refine Search

Search Results -

Terms	Documents
L1 same (driv\$3 adj1 unit)	0

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L5	Refine Search	
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<u>Set</u> <u>Name</u>	<u>Query</u>	<u>Hit</u> <u>Count</u>	<u>Set</u> <u>Name</u> result set
side by side			
<i>DB=EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR</i>			
<u>L5</u>	L1 same (driv\$3 adj1 unit)	0	<u>L5</u>
<i>DB=PGPB,USPT,USOC; PLUR=YES; OP=OR</i>			
<u>L4</u>	L1 same (driv\$3 adj1 unit)	33	<u>L4</u>
<u>L3</u>	L1 same driving	170	<u>L3</u>
<u>L2</u>	L1 same (driving adj1 unit)	2	<u>L2</u>
<u>L1</u>	(disk or disc) same (control\$4 near3 (board or card)) same (external or remote or separate\$2)	1913	<u>L1</u>

END OF SEARCH HISTORY

Refine Search

Search Results -

Terms	Documents
L1 same (driv\$3 adj1 unit)	2

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Set
Name Query
 side by
 side

DB=PGPB,USPT,USOC; PLUR=YES; OP=OR

		<u>Hit</u>	<u>Set</u>
		<u>Count</u>	<u>Name</u>
<u>L2</u>	L1 same (driv\$3 adj1 unit)	2	<u>L2</u>
<u>L1</u>	(optical adj1 (disk or disc)) same (control\$4 near3 (board or card)) same (external or remote or separate\$2)	101	<u>L1</u>

END OF SEARCH HISTORY

Refine Search

Search Results -

Terms	Documents
L1 same (driv\$3 adj1 unit)	0

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Search:

L3	Refine Search
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Recall Text
 Clear
 Interrupt

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<u>Set</u> <u>Name</u>	<u>Query</u>	<u>Hit</u> <u>Count</u>	<u>Set</u> <u>Name</u>
side by side			result set
<i>DB=EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR</i>			
<u>L3</u> L1 same (driv\$3 adj1 unit)		0	<u>L3</u>
<i>DB=PGPB,USPT,USOC; PLUR=YES; OP=OR</i>			
<u>L2</u> L1 same (driv\$3 adj1 unit)		2	<u>L2</u>
<u>L1</u> (optical adj1 (disk or disc)) same (control\$4 near3 (board or card)) same (external or remote or separate\$2)		101	<u>L1</u>

END OF SEARCH HISTORY

Refine Search

Search Results -

Terms	Documents
L1 same ((driv\$3 adj1 unit) or head)	8

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Search History

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Set	Name	Query	Hit Count	Set Name
side by side				result set
		DB=PGPB,USPT,USOC; PLUR=YES; OP=OR		
	<u>L4</u>	L1 same ((driv\$3 adj1 unit) or head)	8	<u>L4</u>
		DB=EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR		
	<u>L3</u>	L1 same (driv\$3 adj1 unit)	0	<u>L3</u>
		DB=PGPB,USPT,USOC; PLUR=YES; OP=OR		
	<u>L2</u>	L1 same (driv\$3 adj1 unit)	2	<u>L2</u>
	<u>L1</u>	(optical adj1 (disk or disc)) same (control\$4 near3 (board or card)) same (external or remote or separate\$2)	101	<u>L1</u>

END OF SEARCH HISTORY

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L4: Entry 4 of 8

File: PGPB

Sep 16, 2004

PGPUB-DOCUMENT-NUMBER: 20040181624

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040181624 A1

TITLE: Optical disc drive

PUBLICATION-DATE: September 16, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Bae, Byoung-young	Suwon-si		KR
Hong, Soon-kyo	Seoul		KR

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	COUNTRY	TYPE CODE
Samsung Electronics, Co., Ltd.	Suwon-City		KR	03

APPL-NO: 10/743327 [PALM]

DATE FILED: December 23, 2003

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	DOC-ID	APPL-DATE
KR	2002-85444	2002KR-2002-85444	December 27, 2002

INT-CL-PUBLISHED: [07] G06 F 13/00

US-CL-PUBLISHED: 710/100

US-CL-CURRENT: 710/100

REPRESENTATIVE-FIGURES: 2

ABSTRACT:

An optical disc drive that includes a driving unit including a spindle motor to rotate an optical disc, an optical pickup to access the optical disc, and a connection board connected to a computer. A control board to control the driving unit, is installed at an interface device of the computer, separate from the driving unit, and is connected to the connection board.

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Refine Search

Search Results -

Terms	Documents
L1 and L5	3

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Search:

<input type="text" value="L6"/>	<input type="button" value="Refine Search"/>
<input type="button" value="Recall Text"/> <input type="button" value="Clear"/> <input type="button" value="Interrupt"/>	

Search History

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<u>Set</u>	<u>Hit</u>	<u>Set</u>
<u>Name</u>	<u>Count</u>	<u>Name</u>
side by side		result set
<i>DB=PGPB,USPT,USOC; PLUR=YES; OP=OR</i>		
<u>L6</u> l1 and L5	3	<u>L6</u>
<u>L5</u> 710/100,300,301,313,315,1;235/454;369/18,24.01,47.1,44.31;711/111,112.ccls.	8886	<u>L5</u>
<u>L4</u> L1 same ((driv\$3 adj1 unit) or head)	8	<u>L4</u>
<i>DB=EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR</i>		
<u>L3</u> L1 same (driv\$3 adj1 unit)	0	<u>L3</u>
<i>DB=PGPB,USPT,USOC; PLUR=YES; OP=OR</i>		
<u>L2</u> L1 same (driv\$3 adj1 unit)	2	<u>L2</u>
<u>L1</u> (optical adj1 (disk or disc)) same (control\$4 near3 (board or card)) same (external or remote or separate\$2)	101	<u>L1</u>

END OF SEARCH HISTORY

EAST - [Untitled1;1]

File View Edit Tools Window Help

Back Forward Stop Refresh

- Drafts
- Pending
- Active
 - L1: (54) (optical adj1 (disk or disc)) same (contr
 - L2: (22) 11 same driv\$3
- Failed
- Saved
- Favorites
- Tagged (0)
- UDC
- Queue
- Trash

Search Query Results

DBs: USPA

Default operator: OR

Plurals

Highlight all hit items initially

Search results for query: (optical adj1 (disk or disc)) same (contr

Number of hits: 76

Time taken: 0.000 seconds

Results:

1. BRS L1 54 (optical adj1 (disk or disc)) same (contr

2. BRS L2 22 11 same driv\$3

File Form Search Image Text HTML

Type	L #	Hits	Search Text	DBs	Time	Stam	Comment	Error	Definit	Ex
1 BRS	L1	54	(optical adj1 (disk or disc)) same (contr	USPA	2006/02/1	T	3 12:50			
2 BRS	L2	22	11 same driv\$3	USPA	2006/02/1	T	3 12:51			

Start Back Stop Refresh EAST - [...]

EAST - [Untitled1:1]

File View Edit Tools Window Help

D|C|S|T|>|<|

- Drafts
- Pending
- Active
 - L1: (54) (optical adj1)
 - L2: (22) 11 same driv\$3
- Failed
- Saved
- Favorites
- Tagged (0)
- UDC
- Queue
- Trash

Search | Stop | |

DBs | USPAT

Default operator: OR

 Plurals Highlight all hit items initially

11 same driv\$3

A ExtForm A CapForm Image Text HTML

	U	I	Document ID	Issue Date	Pages	Title	Current CR	Current X
1	<input type="checkbox"/>	<input type="checkbox"/>	US 6947041	20050920	17	Image processing method	345/428	345/419
			B2					
2	<input type="checkbox"/>	<input type="checkbox"/>	US 6910218	20050621	14	Slim type optical disc drive	720/653	720/613
			B2					
3	<input type="checkbox"/>	<input type="checkbox"/>	US 6894880	20050517	9	Protection circuit for semiconductor laser dev	361/56	361/111
			B2					
4	<input type="checkbox"/>	<input type="checkbox"/>	US 6761635	20040713	36	Remote-control signal receiver	463/39	348/734;
			B2					463/37
5	<input type="checkbox"/>	<input type="checkbox"/>	US 6693868	20040217	46	Disc drive having feed chassis supporting memb	720/622	
			B2					
6	<input type="checkbox"/>	<input type="checkbox"/>	US 6667853	20031223	9	Holding structure of indicating display devi	360/137	720/657
			B2					
7	<input type="checkbox"/>	<input type="checkbox"/>	US 6016386	20000118	61	Image forming system for preparing subsequent	358/1.15	358/1.17;
			A					358/403;
8	<input type="checkbox"/>	<input type="checkbox"/>	US 5983318	19991109	17	Maximizing hit ratio in an automated storage li	711/113	369/30.31
			A					369/30.34
9	<input type="checkbox"/>	<input type="checkbox"/>	US RE36286	19990831	25	Preemptive demount in an automated storage li	710/8	369/30.32
			E					
10	<input type="checkbox"/>	<input type="checkbox"/>	US 5682227	19971028	91	Royalty accounting system for a book confe	355/25	377/8;
			A					399/362;
11	<input type="checkbox"/>	<input type="checkbox"/>	US 5675149	19971007	10	Compact thermal camera	250/332	250/330;

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Tarraga, J.; Hersch, R.D.;

[Multimedia and Expo_2002_ICME '02_Proceedings_2002 IEEE International Conference on](#)

Volume 2, 26-29 Aug. 2002 Page(s):173 - 176 vol.2

Digital Object Identifier 10.1109/ICME.2002.1035541

[AbstractPlus](#) | Full Text: [PDF\(559 KB\)](#) [IEEE CNF](#)[Rights and Permissions](#) 2. **Small form factor optical drive: miniaturized plastic high-NA objective and optical drive**

van der Aa, M.A.H.; van As, M.A.J.; Braun, A.L.; Hendriks, B.H.W.; Liedenbaum, C.T.H.; van Rompaey, B.; van Rosmalen, G.E.; Schleipen, J.J.H.B.; Borg, H.J.; Nijssse, G.J.P.; Nuijens, P.G.; van Aken, N.P.D.M.; Jutte, P.T.; Renckens, J.M.G.; van Steen, R.I.; Bramwell, S.; Stavely, P.;

[Optical Memory and Optical Data Storage Topical Meeting_2002_International Symposium on](#)

7-11 July 2002 Page(s):251 - 253

Digital Object Identifier 10.1109/OMODS.2002.1028631

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Small form factor optical drive: miniaturized plastic high-NA objective and optical drive

van der Aa, M.A.H., van As, M.A.J., Braan, A.L., Hendriks, B.H.W., Lierdenbaum, C.I.H., van Rompaey, B., van Rosmalen, G.E., Schleijpen, J.J.H.B., Borg, H.J., Nijssse, G.J.P., Nuijens, P.G., van Aken, N.P.D.M., Jutte, P.I., Renckens, J.M.G., van Steen, R.J., Bramwell, S., Slavely, P.

Philips Res. Labs., Eindhoven, Netherlands

This paper appears in: [Optical Memory and Optical Data Storage Topical Meeting, 2002, International Symposium on](#)

Publication Date: 7-11 July 2002

On page(s): 251 - 253

Number of Pages: (xiii+439+ii+70 suppl.)

ISSN:

INSPEC Accession Number: 7492349

Digital Object Identifier: 10.1109/OMODS.2002.1028631

Posted online: 2002-11-07 17:06:17.0

Abstract

Recent developments in portable consumer devices call for storage systems solutions using compact drive units and cheap storage media. A major advantage of conventional optical storage is the intrinsic low media cost and the ease of manufacturing of replicated ROM media. Third generation optical storage, using a blue laser and a high numerical aperture objective lens, is a perfect technology candidate for a small form factor optical (SFFO) drive. Using third generation optical storage technology 27 GBytes becomes available on a 12 cm optical disc. Using this data density for an SFFO drive, a storage capacity of over 1 Gbytes become feasible on a coin-sized disc. In this paper we report the realization of a SFFO drive, featuring 1 Gbytes on a 30 mm rewritable optical disc, with dimensions comparable to Compact Flash PCMCIA-like drives. Our main focus in this paper is on the miniaturization of the basic components of the SFFO drive, such as disc, objective and 2D-actuator. Related subjects in Philips R&D are miniature optics and low-dissipation/high-integration electronics.

Index Terms

Inspec

Controlled Indexing

disc drives electromagnetic actuators microlenses optical disc storage optical testing semiconductor lasers

Non-controlled Indexing

1 Gbyte 12 cm 27 Gbyte 2D-actuators 30 mm Compact Flash PCMCIA-like drives ROM media manufacture/replication SFFO drive data density blue laser diodes cheap storage media coin-sized disc compact drive units drive storage capacity low-dissipation/high-integration electronics miniature optics miniaturized optical disk drives objective lens numerical aperture optical storage system media cost plastic high-NA objectives portable consumer devices rewritable optical disc size small form factor optical drives storage systems solutions

Author Keywords

Not Available

References

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